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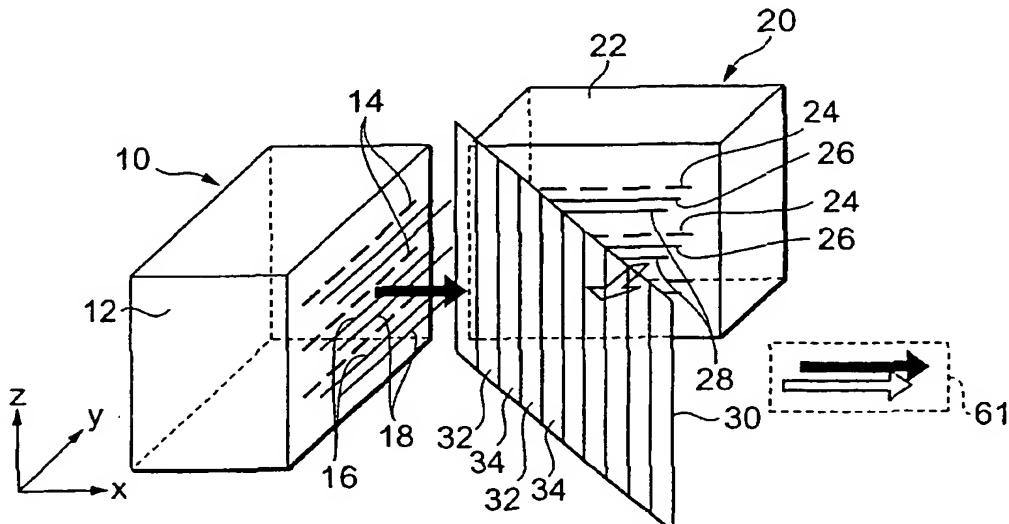
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(54) Title: CONDENSER

(54)発明の名称: 集光装置



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(57) Abstract: A condenser comprising a plurality of light sources (10, 20), and a light synthesizing element (30). These light sources (10, 20) comprise semiconductor laser array stacks (12, 22), collimator lenses (16, 26), and beam converters (18, 28), respectively. Since the light synthesizing element (30) synthesizes a beam from the stack (12) and a beam from the stack (22), a laser beam having a high light density is created. The transmitting part (32) and the reflecting part (34) of the light synthesizing element (30) preferably have a stripe shape elongated in the stacking direction of the stacks (12, 22). Even if a plurality of active layers (14, 24) have a positional shift, beams emitted from the active layers (14, 24) are received appropriately by the light synthesizing element (30) and synthesized.

(57) 要約: 集光装置は、複数の光源(10, 20)と、合光素子(30)を有する。これらの光源(10, 20)は、それぞれ半導体レーザアレイスタック(12, 22)、コリメータレン

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**ABSTRACT**

An optical condenser device has light sources (10, 20) and an optical combiner (30). Each light source (10, 20) includes a semiconductor laser array stack (12, 22), collimator lenses (16, 26), and beam converters (18, 28). Since the optical combiner (30) combines the beams from one (12) of the stacks and the beams from the other (22), a laser beam with high optical density is generated. The optical combiner (30) has transmitting portions (32) and reflecting portions (34), each of which preferably has a strip-like shape elongated in the layering directions of the stacks (12, 22). In this case, the beams emitted from the active layers (14, 24) will be received and combined appropriately by the optical combiner (30) even if positional deviation of the active layers (14, 24) occurs.